Appl. No. 09/764,560
Atty. Docket No. 8392
Amdt. dated November 10, 2004
Reply to Office Action of August 10, 2004
Customer No. 27752

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (previously amended) A treatment composition, comprising:

i) an aqueous continuous phase;

ii) a reactive component comprising a reactive agent comprising a compound comprising a reactive group, the reactive group being a protected thiol reactive group having the formula

$$R—(S—Pr)_m$$

where R is a mono or multivalent cosmetically active functional group, wherein R is a functional group selected from the group consisting of antimicrobial compounds, UV-absorbing compounds, skin conditioning agents, hair conditioning agents, hair repair agents, hair styling agents, hair dyes, scalp treatment agents, anti-inflammatory compounds, antioxidants, dyes and coloring agents, perfumes, oral care actives, skin moisturizers, pharmaceutical agents, antidandruff agents, insect repellents, moisturizers, humectants, pearlescent and/or opacifying materials, fabric care actives, pet grooming actives, fabric anti-wrinkling agents, shrink-resistant actives, laundry care actives, hard surfaces actives, textile actives, textile dyes, water-proofing agents, cationic polymers, cationic surface modifiers, hydrophobic surface modifiers, anionic surface modifiers, absorbents, antifungal agents, insecticidal agents, textile color guards, nail actives such as enamel and polish, eyelash actives and mascara, antiperspirant and deodorant actives, anti-acne actives, odor control actives, fluorescent actives, bleaching agents, enzymes, antibodies, dispersing aids, emollients, stabilizers, anti-static agents, anti-seborrhea agents, optical brighteners, fluorescent dyes, softeners, cross-linking agents, photobleaches, bactericides, and mixtures thereof, S is sulfur, Pr is a protecting group, wherein the protecting group is selected from the group consisting of heterocyclic protecting groups, sp^2 aliphatic trigonal carbon protecting groups, sp^3 carbon electrophilic protecting groups, phosphorus protecting groups, metal based protecting groups, non-metal and metalloid based protecting groups other than phosphorus, energy-sensitive protecting groups and mixtures thereof, and m is an integer between 1 and 100; and b) a water immiscible solvent, wherein the water immiscible solvent solubilizes the reactive agent; and

iii) a cationic surfactant comprising a quaternary ammonium halide wherein the cationic surfactants emulsify the reactive component in the aqueous phase to form a bi-layer emulsion

wherein the composition further comprises cholesterol wherein the ratio of cholesterol to cationic surfactant ranges from about 0.5:1.0 to about 1.5:1.0.

2. (original) A treatment composition according to Claim 1, wherein the reactive agent is covalently reactive with an amino acid based substrate.

3. (original) A treatment composition according to Claim 2, wherein the reactive agent is covalently reactive with human hair.

4. (canceled)

5. (canceled)

6. (previously amended) A treatment composition according to Claim 1, wherein the treatment composition comprises from about 0.01% to about 10% by weight of the composition, of the reactive agent; from about 1% to about 50% by weight of the composition, of the water immiscible solvent; from about 1% to about 50%, by weight of the composition, of the cationic surfactants; and from about 20% to about 95%, by weight of the composition, of the aqueous continuous phase.

7. (canceled)

8. (canceled)

9. (canceled)

10. (canceled)

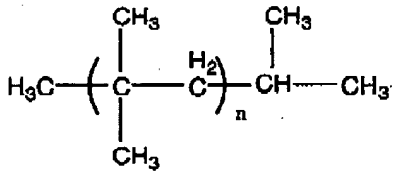
11. (original) A treatment composition according to Claim 1, wherein the water immiscible solvent comprises solvents selected from the group consisting of a volatile silicone compounds, nonvolatile silicone compounds, volatile hydrocarbons, nonvolatile hydrocarbons, propylene carbonates and mixtures thereof.

12. (original) A treatment composition according to Claim 11, wherein the water immiscible solvent comprises solvents selected from the group consisting of linear and cyclic polydimethylsiloxanes and mixtures thereof.

13. (original) A treatment composition according to Claim 12, wherein the water immiscible solvent comprises hexamethyl siloxane and cyclomethicone.

14. (original) A treatment composition according to Claim 13, wherein the water immiscible solvent is selected from volatile and nonvolatile hydrocarbon compounds having about 10 to 30 carbon atoms.

15. (original) A treatment composition according to Claim 14, wherein the water immiscible solvent comprises compound depicted by the following general structure wherein n ranges from 2 to 5,



16. (previously amended) A treatment composition according to Claim 1, wherein the treatment composition further comprises a surfactant chosen from the group consisting of anionic surfactants, nonionic surfactants, amphoteric surfactants, zwitterionic surfactants, and mixtures thereof.

17. (canceled)

18. (previously amended) A treatment composition according to Claim 16, wherein the treatment composition further comprises a lipid surfactant wherein the lipid surfactant is a phospholipid from about 1% to about 20%.

19. (previously amended) A treatment composition according to Claim 16, wherein the treatment composition further comprises from about 1% to about 20% of a nonionic surfactant.

20. (original) A treatment composition according to Claim 1, wherein the reactive agent is charged.

21. (original) A treatment composition according to Claim 1, wherein the reactive agent is charged and the surfactants have the same net charge as the reactive agent.

22. (previously amended) A treatment composition according to Claim 1, wherein the treatment composition comprises from about 1% to about 4%, by weight, of thiol pyrimidinium, from about 3% to about 30%, by weight, of a volatile hydrocarbon compound having about 12 to about 24 carbon atoms and having a boiling point of about 90°C to about 250°C, from about 5% to about 30%, by weight, of cetyltrimethylammonium chloride, from about 7% to about 20% cholesterol, and from about 36% to about 91%, by weight, of the aqueous continuous phase.

23. (original) A treatment composition according to Claim 22, wherein the treatment composition further comprises from about 0.1% to about 10%, by weight, of a crystalline, hydroxyl-containing stabilizer.

24. (previously amended) A method of treating amino acid based substrates, wherein the amino based substrates comprises proteinaceous materials found in hair, skin, nails and wool, by applying to the substrates an effective amount of composition according to Claim 1, wherein the composition provides a long-lasting treatment effect.

25. (original) A method of treating hair to provide hair benefits selected from the group consisting of bleaching, coloring, conditioning and mixtures thereof by applying to hair an effective amount of composition according to Claim 1, wherein the composition provides a long-lasting treatment effect.

26. (previously amended) A treatment composition according to Claim 1 wherein the surfactant is a cationic surfactant selected from the group consisting of cetyltrimethylammonium chloride, cetyltrimethylammonium bromide and mixtures thereof.

27. (canceled)

28. (canceled)

29. (previously amended) A treatment composition according to Claim 1 wherein the ration of cholesterol to cationic surfactant is in a range from about 0.7 : 1.0 to about 1.25 : 1.0.

30. (previously added) A treatment composition according to Claim 21 wherein the reactive agent has a cationic charge and the surfactant has a cationic charge.

31. (canceled)

32. (canceled)